

annealing the solder contact to form a solder ball contact having a diameter in a range of about 2.5 microns to no greater than 100 microns.

3.(Amended) The method of claim 1, wherein depositing solder further comprises depositing at least one material selected from [the] a group consisting of lead, tin and bismuth.

9.(Amended) A method of forming a solder ball contact, comprising:

forming a metal contact pad on a substrate;

forming an insulating layer on the metal contact pad;

removing a portion of the insulating layer to expose a portion of the metal contact pad,

thereby forming an exposed portion of the metal contact pad;

[immersing the substrate in molten solder;]

depositing solder on the exposed portion of the metal contact pad, thereby forming a

solder contact by selectively depositing solder only on the exposed portion of the metal contact and not depositing solder on the insulating layer;

maintaining remaining portions of the insulating layer surrounding the solder; and

annealing the solder contact to form a solder ball contact having a diameter in a range of about 2.5 microns to no greater than 100 microns.

10.(Amended) The method of claim 9, wherein [immersing the substrate in molten] depositing solder comprises [immersing the substrate in molten solder having] depositing at least one material selected from [the] a group consisting of lead, tin and bismuth.

11.(Amended) A method of forming a solder ball contact, comprising:

forming a metal contact pad on a substrate;

forming an insulating layer on the metal contact pad;

removing a portion of the insulating layer to expose a portion of the metal contact pad,

thereby forming an exposed portion of the metal contact pad, wherein the exposed portion of the metal contact pad has a diameter of approximately 2 microns;

[immersing the substrate in molten lead;]  
selectively depositing lead on the exposed portion of the metal contact pad, thereby  
forming a solder contact in which solder is selectively deposited only on the  
exposed portion of the metal contact and not on the insulating layer; and  
annealing the solder contact to form a solder ball contact without removing remaining  
portions of the insulating layer .

71.(Amended) A method of forming a solder ball contact, consisting essentially of:  
    forming a metal contact pad on a substrate;  
    forming an insulating layer on the metal contact pad;  
    removing a portion of the insulating layer to expose a portion of the metal contact pad,  
thereby forming an exposed portion of the metal contact pad, the exposed portion having a  
predetermined diameter;  
[immersing the substrate in molten solder;]  
    depositing solder on the exposed portion of the metal contact pad using selective  
deposition, thereby forming a solder contact; and  
    annealing the solder contact to form a solder ball contact having a diameter in a range of  
about 2.5 microns to no greater than 100 microns.

**REMARKS**

Applicant has reviewed and considered the Office Action mailed on February 13, 2002,  
and the references cited therewith.

Claims 1, 3, 9-11, and 71 are amended, as a result, claims 1, 3-12, 64, 65, 68, and 71 are  
now pending in this application.